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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/588,049	06/06/2000	MASAKI KYOJIMA	106406	8128
25944 7.	590 05/11/2004		EXAMINER	
OLIFF & BERRIDGE, PLC			LANIER, BENJAMIN E	
P.O. BOX 1997 ALEXANDRIA	28 A, VA 22320		ART UNIT	PAPER NUMBER
	•		2132	R
		DATE MAILED: 05/11/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Englamin E Lanier 2132							
## Examiner ## Lantier ## 2132 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENDED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be evaluable under the provisions of 3° CFR 1.136(a). In no event, however, may a reply be timely filled It has period from the provisions of 3° CFR 1.136(a). In one event, however, may a reply be timely filled It this period for reply is periodic adversed itset when the provisions of 3° CFR 1.136(a). In one event, however, may a reply be timely filled It has period for reply is periodic adversed itset when the provisions of 3° CFR 1.136(a). In one event, however, may a reply be timely filled It has period for reply is periodic adversed by the day of the period of the period of the period for reply is periodic adversed by the period of		Application No.	Applicant(s)				
Benjamin E Lanier 2132		09/588,049	KYOJIMA ET AL.				
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DETAILED ACTION

Response to Amendment

1. Applicant's amendment of claims 1, 6, 9, 10, 15, 18, 19, 22, 25, 30 has been fully considered and is entered.

Response to Arguments

2. Applicant's arguments, see paper 7, filed 07 April 2004, with respect to the rejection(s) of claim(s) 1-32 under Boebert have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Boebert, in view of Deo.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1, 3, 4-10, 12-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boebert, U.S. Patent No. 5,502,766, in view of Deo, U.S. Patent No. 6,496,928. Referring to

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claims 1, 2, 5, 6, 8-10, 12, 14, 15, 17-27, 29-32, Boebert discloses a data enclave system wherein a workstation user's ID and PIN, stored in the memory of their Personal Keying Device (datafor-second-checking memory unit), is used to generate an encryption key (Col. 10, lines 22-34), which meets the limitation key generation unit for generating an encrypting key from data stored in the data-for-secondary-checking memory unit. The generated encryption key is the used to encrypted the access vector and media key that is stored in the storage search logic (data-formain-checking memory unit)(Col. 13, lines 42-57), which meets the limitation of an encryptor for encrypting data stored in the data-for-main-checking memory unit with the encrypting key generated by the encrypting key generation unit. Authentication protocols are executed with the use of two pseudo random number sequences (Col. 26, lines 44-47). The enciphered Media key and access vector pair arrives at the Crypto Media Controller and the Media ID is used as an index to store the enciphered pair packet in the Personal Keying Device of the user. The media can now be identified and the individual Personal Keying Device contains a media key which can only be used by someone who has physical possession of that Personal Keying Device, knows that individuals PIN, and has the Media of controlled by a Crypto Media Controller containing the enclave key (Col. 13, line 64 – Col. 14, line 13), which meets the limitations of the data verification between units. Boebert discloses that keys can be stored in a database (key memory) for later use (Col. 26, lines 8-13). Boebert does not disclose that the stored keys can be used to generate new keys. Deo discloses the use of old keys that are hashed with other data (data for secondary checking memory unit) to generate new encryption keys (Col. 24, lines 32-54), which meets the limitation of the encryption key generation unit also uses the previous key stored in the previous key memory unit in generating the encrypting key. It would have been

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obvious to one of ordinary skill in the art at the time the invention was made to use the old keys of Boebert to generate new keys in the manner of Deo in order to increase the difficulty of the key becoming compromised as disclosed in Deo (Col. 24, lines 57-68).

Referring to claim 4, 13, Boebert discloses that digital signatures can be used in the data enclave system (Col. 23, lines 50-53).

Referring to claims 7, 16, 28, Boebert discloses using symmetric encryption (Col. 9, lines 22 – Col. 10, line 10).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin E Lanier whose telephone number is 703-305-7684. The examiner can normally be reached on M-Th0 7:30am-5:00pm, F 7:30am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (703)305-1830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Benjamin E. Lanier

GILBERTO BARRUN PERVISORY PATENT EXAMI

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100